

Global Data Center Thermal Management Connector Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Data Center Thermal Management Connector market size is expected to reach \$ 176 million by 2032, rising at a market growth of 8.9% CAGR during the forecast period (2026-2032).

In 2025, global Data Center Thermal Management Connector production reached approximately 1.37 million Units .The average price of a Data Center Thermal Management Connector is 68 US\$/Unit . The Data Center Thermal Management Connector is a specialized electrical and fluid interconnect component designed for liquid cooling, high-density refrigeration, and precise temperature control systems. It aims to ensure the efficient, safe, and reliable operation of thermal infrastructure within confined spaces. This connector encompasses power connectors, signal connectors, and fluid connectors. Its core technical requirements include low contact resistance to handle continuous high-current loads, high protection ratings to withstand coolant splashes or immersion, and blind-mating and hot-swappable designs to support tool-free maintenance of server modules. As the power consumption of a single rack in AI computing clusters exceeds 60kW, thermal management connectors are rapidly evolving towards 800V high-voltage DC, coolant compatibility (fluorinated liquids/propylene glycol), and intelligent monitoring, making them a critical bottleneck component for liquid-cooled data center infrastructure.

In 2025, the data center thermal management connector industry chain will exhibit characteristics of highly specialized upstream materials and concentrated downstream application customers. Key upstream raw materials and suppliers include: high-performance engineering plastics (Polyplastics PPS, Solvay PEEK), corrosion-resistant metals (Sandvik 316L stainless steel, Carpenter Special Alloys), fluorinated liquid-compatible seals (DuPont Viton, NOK), and gold-plated/ruthenium-plated contacts

(Heraevier, Materion). Downstream main application customers fall into three categories: hyperscale cloud providers (AWS, Microsoft, Meta, Alibaba Cloud) dominate the procurement of cold-plate liquid-cooled blind-mate connectors; telecom operators (China Mobile, Verizon) drive the deployment of miniaturized IP67 connectors for edge nodes; and server OEMs (Inspur, Dell, HPE) act as indirect customers for integrated procurement. The entire industry chain is transitioning from customized prototyping to large-scale production of OCP standard interfaces, with corrosion resistance and vibration resistance becoming crucial bidding requirements.

In the cost structure of Data Center Thermal Management Connectors, raw materials account for the largest share (55%-65%), primarily consisting of PEEK engineering plastics, gold-plated copper alloys, and fluorinated liquid sealing rings; precision manufacturing and labor account for 20%-25%, covering injection molding, stamping, and blind-mating assembly; R&D and certification account for 10%-15%, including UL/OCP testing and corrosion resistance verification. The industry average gross profit margin is approximately 35%-50%. Immersion liquid-cooled and high-voltage DC connectors, due to high technological barriers, can achieve gross profit margins exceeding 55%; standard air-cooled power connectors, due to intense competition, have gross profit margins compressed to 25%-30%.

This report studies the global Data Center Thermal Management Connector production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Data Center Thermal Management Connector and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Data Center Thermal Management Connector that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Data Center Thermal Management Connector total production and demand, 2021-2032, (K Units)

Global Data Center Thermal Management Connector total production value, 2021-2032, (USD Million)

Global Data Center Thermal Management Connector production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Data Center Thermal Management Connector consumption by region & country,

CAGR, 2021-2032 & (K Units)

U.S. VS China: Data Center Thermal Management Connector domestic production, consumption, key domestic manufacturers and share

Global Data Center Thermal Management Connector production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Data Center Thermal Management Connector production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Data Center Thermal Management Connector production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Data Center Thermal Management Connector market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Amphenol Industrial, CEJN, Colder Products Company, Danfoss, HENN Connector Group, Molex, Parker Hannifin, Staubli, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Data Center Thermal Management Connector market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Data Center Thermal Management Connector Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Data Center Thermal Management Connector Market, Segmentation by Type:

Power Connectors

Signal Connectors

Fluid Connectors

Hybrid Optoelectronic Connectors

Global Data Center Thermal Management Connector Market, Segmentation by Cooling Technology:

Cold-Plate Liquid-Cooled Connectors

Immersion Liquid-Cooled Connectors

Air-Cooled Enhanced Connectors

Rear Door Heat Exchange Connectors

Global Data Center Thermal Management Connector Market, Segmentation by Deployment:

Chip-Level Connectors

Rack-Level Connectors

Inter Row Level Connectors

Facility-Level Connectors

Global Data Center Thermal Management Connector Market, Segmentation by Application:

Cloud Vendors

Telecom Service Providers

Edge Service Providers

Others

Companies Profiled:

Amphenol Industrial

CEJN

Colder Products Company

Danfoss

HENN Connector Group

Molex

Parker Hannifin

Staubli

Key Questions Answered:

Global Data Center Thermal Management Connector Supply, Demand and Key Producers, 2026-2032

1. How big is the global Data Center Thermal Management Connector market?
2. What is the demand of the global Data Center Thermal Management Connector market?
3. What is the year over year growth of the global Data Center Thermal Management Connector market?
4. What is the production and production value of the global Data Center Thermal Management Connector market?
5. Who are the key producers in the global Data Center Thermal Management Connector market?
6. What are the growth factors driving the market demand?

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